PPP2R2A Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	PPP2R2A, Lysate
Full Product Name	Human PPP2R2A Protein Lysate
Product Gene Name	PPP2R2A lysate
Product Synonym Names	PPP2R2A; B55A; B55ALPHA; PR52A; PR55A; PR55alpha
Host	Human
Form/Format	Lyophilized
Preparation and Storage	Store at -20 degree C Once reconsituted, aliquot and store any remaining material at-20 degree C to avoid repeated freeze-thaw cycles.
Molecular Weight	49kDa
OMIM	604941
3D Structure	ModBase 3D Structure for P63151
Related Product Information for PPP2R2A lysate	Human PPP2R2A Protein Lysate 20ug is provided as a Lyophilized powder. This is a Recombinant Protein Lysate produced in HEK293T cells. This protein lysate can be reconsituted using SDS Sample Buffer.
Other Notes	Small volumes of PPP2R2A lysate vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PPP2R2A purchase	MBS8417669 is a lysate targeting PPP2R2A. Also known as Human PPP2R2A Protein Lysate. Host: Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PPP2R2A. It may not necessarily be applicable to this product.

NCBI GI #	4506019
NCBI GeneID	5520
NCBI Accession #	NP_002708
UniProt Primary Accession #	P63151
UniProt Related Accession #	P63151
GenBank Nucleotide #	NM_002717
NCBI Official Full Name	serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B alpha isoform isoform 1
NCBI Official Synonym Full Names	protein phosphatase 2 regulatory subunit Balpha
NCBI Official Symbol	PPP2R2A
NCBI Official Synonym Symbols	B55A; PR52A; PR55A; B55ALPHA; PR55alpha
UniProt Protein Name	Serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B alpha isoform
UniProt Synonym Protein Names	PP2A subunit B isoform B55-alpha; PP2A subunit B isoform PR55-alpha; PP2A subunit B isoform R2-alpha; PP2A subunit B isoform alpha

Protein Family	Serine/threonine-protein phosphatase
UniProt Gene Name	PPP2R2A
UniProt Entry Name	2ABA_HUMAN
NCBI Protein Information	serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B alpha isoform
NCBI Summary for PPP2R2A	The product of this gene belongs to the phosphatase 2 regulatory subunit B family. Protein phosphatase 2 is one of the four major Ser/Thr phosphatases, and it is implicated in the negative control of cell growth and division. It consists of a common heteromeric core enzyme, which is composed of a catalytic subunit and a constant regulatory subunit, that associates with a variety of regulatory subunits. The B regulatory subunit might modulate substrate selectivity and catalytic activity. This gene encodes an alpha isoform of the regulatory subunit B55 subfamily. Alternatively spliced transcript variants have been described. [provided by RefSeq, Apr 2010]
UniProt Comments for PPP2R2A	PPP2R2A: The B regulatory subunit might modulate substrate selectivity and catalytic activity, and also might direct the localization of the catalytic enzyme to a particular subcellular compartment. Found in a complex with at least ARL2, PPP2CB, PPP2R1A, PPP2R2A, PPP2R5E and TBCD. PP2A consists of a common heterodimeric core enzyme, composed of a 36 kDa catalytic subunit (subunit C) and a 65 kDa constant regulatory subunit (PR65 or subunit A), that associates with a variety of regulatory subunits. Proteins that associate with the core dimer include three families of regulatory subunits B (the R2/B/PR55/B55, R3/B''/PR72/PR130/PR59 and R5/B'/B56 families), the 48 kDa variable regulatory subunit, viral proteins, and cell signaling molecules. Interacts with TP53. Expressed in all tissues examined. Belongs to the phosphatase 2A regulatory subunit B family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Motility/polarity/chemotaxis; Protein phosphatase, regulatory subunit Chromosomal Location of Human Ortholog: 8p21.2 Cellular Component: nucleoplasm; protein phosphatase type 2A complex; cytosol Molecular Function: protein binding; protein phosphatase type 2A regulator activity; protein serine/threonine phosphatase activity Biological Process: mitotic nuclear envelope reassembly; regulation of catalytic activity; mRNA catabolic process, nonsense-mediated decay; response to morphine; gene expression; mitotic cell cycle; G2/M transition of mitotic cell cycle; signal transduction; protein amino acid dephosphorylation
Research Articles on PPP2R2A	**1.** Data show that SAM Domain and HD Domain-Containing Protein 1 (SAMHD1) is specifically targeted by protein phosphatase 2 regulatory subunit Balpha protein (PP2A-B55alpha) holoenzymes during mitotic exit.
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